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Papers read before the Society from February 1882 *to February* 1883.

1882.

Mar. 10. The Transit of *Mercury* 1881, November 7, observed in New South Wales. H. C. Russell.

Note on the north polar distance of the star Lacaille 4342. David Gill.

Observations of the Transit of *Mercury* 1881, November 7, made at Honolulu, Sandwich Islands. C. H. Rockwell.

Observations of Comet III. 1881, made at Windsor, New South Wales. J. Tebbutt.

Observations of the lunar eclipse 1881, December 5. J. Rand Capron.

Note on the places of three stars in the Armagh Catalogue. Rev. T. R. Robinson.

Measures of Sir John Herschel's double stars made at the Observatory, Sydney, together with a list of new double stars. H. C. Russell.

Orbits of meteor-streams deduced from observations made in Hungary during the years 1871–80. R. de Kövesligethy.

On the correction to the horizontal diameter of the Moon from the observations made between 1851 and 1858. J. Campbell and E. Neison.

Revision of 21 places in the red half of the solar spectrum, with a Rutherfurd diffraction grating, at Madeira, during the summer of 1881. Prof. C. Piazzi Smyth.

Observations of occultations of stars by the Moon and phenomena of *Jupiter's* satellites, made at the Royal Observatory, Greenwich, in the year 1881. Astronomer Royal.

Notes on M. Loewy's remarks relative to the wedge-extinction method of stellar photometry. Prof. C. Pritchard.

Note on a term in the perturbations of the Moon due to the action of *Mars*. E. Neison.

Observations of occultations of stars by the Moon, and of phenomena of *Jupiter's* satellites made at the Radcliffe Observatory, Oxford. E. J. Stone.

Réponse à la communication faite à la Société Royale Astronomique par M. Marth, au sujet de mon appareil pour la détermination des flexures. M. Loewy.

On the observation of the Transit of *Venus* by the dispersion-parallelopipedon. Prof. C. V. Zenger.

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Spectroscopic results for the motions of stars in the line of sight, obtained at the Royal Observatory, Greenwich in the year 1881. No. V. Astronomer Royal.

A new method of bright-wire illumination for position micrometers. S. W. Burnham.

Sextant observations of Comet *b*, 1881. Capt. D. W. Barker.

April 14. On the inclination of the ring of *Saturn* to its orbit, deduced from Washington Observations. Prof. E. S. Holden.

Conjunctions of the interior satellites of *Saturn*. Prof. A. Hall.

On the best mode of undertaking a discussion of the observations of contact to be made at the approaching Transit of *Venus*. David Gill.

Errata in the first Melbourne General Catalogue of Stars. R. L. J. Ellery.

Remarks on the instructions for observing the Transit of *Venus* formulated by the Paris International Conference. Prof. S. Newcomb.

The variable star *β Ursæ Minoris*. T. E. Espin.

On some results obtained from the meridian observations of *Mars* at the Opposition of 1877. E. J. Stone.

Note on Mr. Neison's paper on the corrections to Adams's semi-diameter of the Moon. E. J. Stone.

Observations of the companion of *Sirius*. Prof. A. Hall.

Alleged errors in the time-record of observations of the Transit of *Venus*, 1874, at Hermitage, Rodriguez. Lieut. W. U. Moore.

May 12. On a supposed periodical term in the values found for the coefficient of the parallactic inequality. E. Neison.

The nebula near *Merope*. T. W. Backhouse.

Observations of the phenomena of *Jupiter's* satellites made at Mr. Edward Crossley's Observatory, Bermerside, Halifax. J. Gledhill.

Note on the illumination of micrometers. A. A. Common.

Elements of the orbit of Comet *Wells*. A. Graham.

An examination of the Roorkee observations of the Transit of *Venus*. Col. J. F. Tennant.

The great Sun-spots of April 1882. H. Pratt.

Note on an apparatus for determining those errors of astronomical observations which are caused by the flexures of an instrument, and by defects in the shape of its pivots. A. Marth.

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Determination of the orbit of η *Cassiopeiæ*. J. B. Coit.

On the spectrum of Comet *a*, 1882 (Wells), observed at the Royal Observatory, Greenwich. Astronomer Royal.

Discussion of the observations of γ *Draconis*, made with the Greenwich reflex zenith-tube during the years 1857 to 1875 inclusive. A. M. W. Downing.

Note on a photograph of the nebula in *Orion*. A. A. Common.

On the solar spots of April and May, 1882. Rev. F. Howlett.

June 9. Measures of the companion to *Sirius*. S. W. Burnham.

The meridian photometer. Prof. E. C. Pickering.

Remarques à propos des récentes observations de M. Schiaparelli sur la planète *Mars*. Dr. F. Terby.

On the present state of the theory of the sidereal system. Maxwell Hall.

Transits of the red spot across the apparent central meridian of *Jupiter*, with the corresponding longitudes. Prof. C. W. Pritchett.

Double star observations made in 1879 and 1880, with the 18½-inch Refractor of the Dearborn Observatory. S. W. Burnham.

The solar eclipse, 1882, May 16. Rev. S. J. Perry.

Observations of Comet *b*, 1881. T. W. Backhouse.

On photographs of the nebula in *Orion*, and of its spectrum. Dr. H. Draper.

On the spectrum of Comet *Wells*. N. C. Dunér.

On the possible existence of perturbations in cometic orbits during the formation of nuclear jets, with suggestions for their detection. C. E. Burton.

Note on lunar photographs taken after enlargement of the primary image by an eyepiece. C. E. Burton.

On the variable star U *Cephei*. G. Knott.

Sextant observations of Comet *b*, 1881. Capt. J. F. Parson.

Some remarks on Prof. Newcomb's paper on the instructions for observing the Transit of *Venus* formulated by the Paris International Conference. E. J. Stone.

Note on M. Loewy's communication referring to an apparatus for determining flexure errors. With some remarks on Prof. Houzeau's (and M. Schäberle's proposal) on the same subject. A. Marth.

Note on the best method for determining the errors of division of circles and scales. A. Marth.

Ephemeris for physical observations of *Jupiter*. A. Marth.

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Further spectroscopic observations of Comet *a*, 1882 (Wells), made at the Royal Observatory, Greenwich. Astronomer Royal.

Curves showing the changes in the adopted diameter of the Moon as given by the observations in the Greenwich Lunar Reductions 1750 to 1830. E. J. Stone.

Elements of Comet *Wells* obtained graphically. F. C. Penrose.

Nov. 10. Ephemerides of the satellites of *Saturn*, August to November 1882. A. Marth.

Ephemeris of the satellite of *Neptune*, 1882–1883. A. Marth.

Observations of Comet *a*, 1882, made at the Radcliffe Observatory, Oxford. E. J. Stone.

On the partial eclipse of the Sun, 1882, May 17, observed at Vizagapatam. A. V. Nursing Row.

Observation of Comet *Wells*. L. G. Puckle.

Spectroscopic observations of Comet *Wells*. Dr. de Konkoly.

Ephemerides of the satellites of *Saturn*, December 1882 to March 1883. A. Marth.

Addition to the Ephemeris for physical observations of *Jupiter*: on the motion of the white spot. A. Marth.

Réponse à M. Marth. M. Loewy.

On the solution of Kepler's problem. Professor C. V. Zenger.

Observations of Comet *b*, 1882, made at Windsor, New South Wales. J. Tebbutt.

Elements of Comet *b*, 1882. W. H. Finlay and W. L. Elkin.

The fireball radiants of August 9–11. W. F. Denning.

The electric light in observatories. W. S. Franks.

The markings on *Jupiter*. W. F. Denning.

Elements of Comet III. (Schäberle), 1881. H. T. Vivian.

On observations of Comets 1881 I. and II., of Wells's Comet, and of the Great Comet (*b*) 1882, made at the Royal Observatory, Cape of Good Hope. David Gill.

Notes on the Great Comet (*b*) 1882. David Gill.

The Great Comet (*b*) 1882: disappearance at the Sun's limb. W. H. Finlay.

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On a probable Assyrian Transit of *Venus*. Rev. S. J. Johnson.

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The Great Comet (*b*) 1882. F. C. Penrose.

On certain deviations from the law of apertures in relation to stellar photometry, and on the applicability of a glass wedge to the determination of the magnitudes of coloured stars. Professor C. Pritchard.

Observations of Comets *a*, *b*, and *c*, 1882, made at the Royal Observatory, Greenwich. Astronomer Royal.

The solar eclipse of 1882, May 17, observed at Meerut, India. Major A. Burton-Brown.

Sextant observations of the Great Comet (*b*) 1882. Captain G. Pochrane.

Dec. 8 Observations of the Great Comet (*b*) 1882, made at the Melbourne Observatory. R. L. J. Ellery.

Observations of the Great Comet (*b*) 1882, made at the Sydney Observatory. H. C. Russell.

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Observations of the Great Comet (*b*) 1882. A. V. Nursing Row.

Observations of the Great Comet (*b*) 1882 (extract from a letter to the Rev T. W. Webb). J. T. Stevenson.

Observations of the Great Comet (*b*) 1882, made at the Observatory, O'Gyalla, Hungary. Dr. N. de Konkoly.

The star gauges of Sir W. Herschel, reduced to 1860. Prof. E. S. Holden.

On photographs of the Great Comet (*b*) 1882, obtained at the Royal Observatory, Cape of Good Hope. David Gill.

Observation of the Transit of *Venus* 1882, December 6, made at Crowborough, Tunbridge Wells. C. L. Prince.

Observations of the Great Comet (*b*) 1882, made at the Cambridge Observatory. Prof. J. C. Adams.

On Newton's solution of Kepler's problem. Prof. J. C. Adams.

Observations of the Great Comet (*b*) 1882. Rev. J. Reed.

Observation of the Transit of *Venus* 1882, December 6. W. E. Cooper.

1883.
Jan. 12. Ephemeris of the satellites of *Uranus*, 1883. A. Marth.

Observation of the Transit of *Venus* 1882, December 6, made at the Glasgow Observatory. Prof. R. Grant.

The Transit of *Venus* 1882, December 6, observed at the Allegheny Observatory. Prof. S. P. Langley.

Observations of the solar spots, November 1882. F. Brodie.

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Observation of the Transit of *Venus* 1882, December 6, made at Fernhill, Isle of Wight. F. Brodie.

The Aquariads of April 29 to May 3. W. F. Denning.

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Le passage de *Vénus* (1882, Dec. 6) observé à l'Observatoire, Moncalieri. F. Denza.

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Sextant observations of the Great Comet (*b*) 1882, made on board the ship "Superb." Capt. D. W. Barker.

Observation of the Transit of *Venus* 1882, December 6, made on board H.M.S. "Northampton" at Antigua, West Indies. J. R. Walker (and other officers).

Observation of the Transit of *Venus* 1882, December 6, at Marseilles. Rev. S. J. Johnson.

Observation of the Transit of *Venus*, 1882, December 6. Rev. R. P. Davies.

Observations of phenomena of *Jupiter's* satellites, made at the University Observatory, Durham, in the year 1882. G. A. Goldney.

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Reduction of latitude and logarithm of the Earth's radius, with Col. Clarke's value of the Earth's compression. E. J. Stone.

Meteors and meteorology. R. A. Proctor.

The orbit of the Great Comet (*b*) 1882. F. C. Penrose.

Note upon the longitude of Madras, Singapore, and Batavia. Prof. J. A. C. Oudemans.

Spectroscopic results for the motions of stars in the line of sight obtained at the Royal Observatory, Greenwich, in the year 1882. No. VI. Astronomer Royal.

The spectrum of the great Sun-spot of 1882, November 12–25, observed at the Royal Observatory, Greenwich. Astronomer Royal.

Note on William Ball's observations of *Saturn*. Prof. J. C. Adams.